

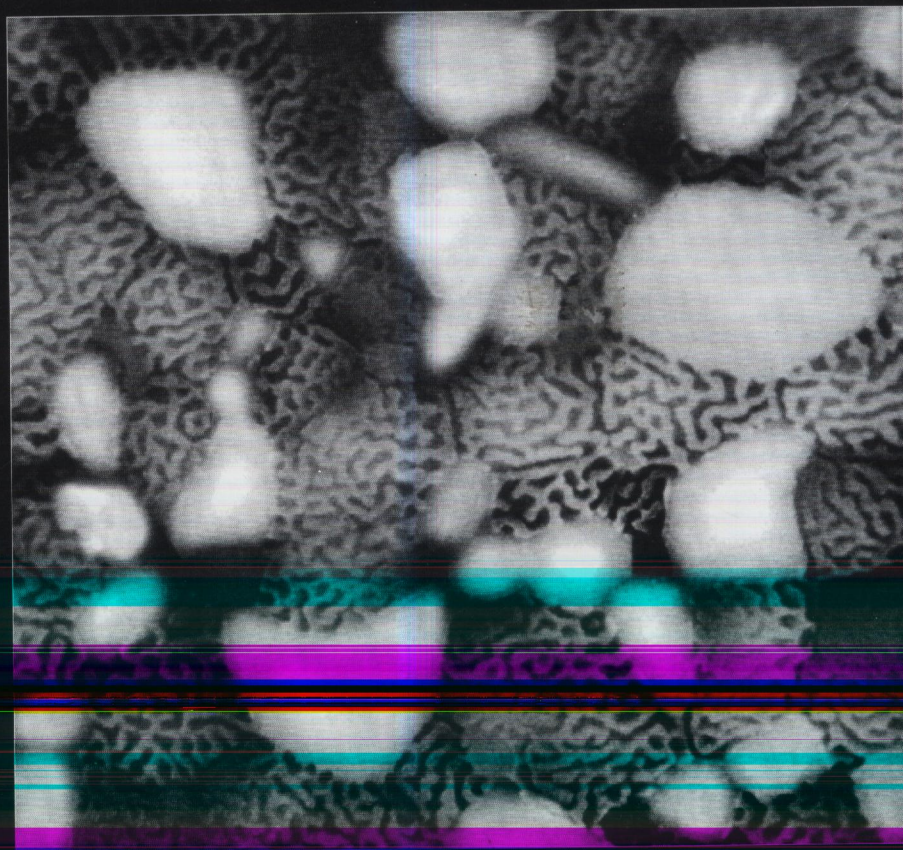
ISSN 0022-3727

IOP

Journal of Physics D **Applied Physics**

Volume 36 Number 16 21 August 2003

Online: www.iop.org/journals/jphysd



Institute of **Physics** PUBLISHING

(Continued from outside back cover)

- 2017 **Effects of growth conditions on the emission properties of ZnO films prepared on Si(100) by rf magnetron sputtering**
S-H Jeong, J-K Kim and B-T Lee

STRUCTURE AND PROPERTIES OF MATTER

- 2021 **High-pressure study of ternary mercury chalcogenides: phase transitions, mechanical and electrical properties**
V V Shchennikov, S V Ovsyannikov and N Yu Frolova

INTERDISCIPLINARY PHYSICS AND RELATED AREAS OF SCIENCE AND TECHNOLOGY

- 2027 **Low-energy N⁺ ion irradiation induced synthesis of nitrogenous compound from solid organic sodium salts**
X Wang and Z Yu

Journal of Physics D: Applied Physics

Volume 36

Number 16

21 August 2003

PAPERS

APPLIED MAGNETISM, MAGNETIC MATERIALS AND SUPERCONDUCTIVITY

- 1923 **Low-field MR behaviour in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3/\text{ZrO}_2$ composite system**
B-X Huang, Y-H Liu, R-Z Zhang, X-Yuan, C-J Wang and L-M Mei

PHOTONICS AND SEMICONDUCTOR DEVICE PHYSICS

- 1928 **Tunable single and dual mode operation of an external cavity quantum-dot injection laser**
A Biebersdorf, C Lingk, M De Giorgi, J Feldmann, J Sacher, M Arzberger, C Ulbrich, G Böhm, M-C Amann and G Abstreiter

EXPERIMENTAL, COMPUTATIONAL AND THEORETICAL PARTICLE BEAM AND PLASMA SCIENCE

- 1931 **Electrical properties of an un-cooled microwave waveguide applicator—VSWR**
S A Gower
- 1936 **Electron transport coefficients in SiH_4 and Si_2H_6 in dc and rf fields**
T Shimada, Y Nakamura, Z Lj Petrović and T Makabe
- 1947 **Stability of the active plasma-sheath system**
R N Franklin and M Slemrod
- 1952 **Formation and structure of primary and secondary streamers in positive pulsed corona discharge—effect of oxygen concentration and applied voltage**
R Ono and T Oda
- 1959 **Large gap plasma display cell with auxiliary electrodes: macro-cell experiments and two-dimensional modelling**
J T Ouyang, Th Callegari, B Caillier and J-P Boeuf
- 1967 **A model study of propagation of the first ionization wave during breakdown in a straight tube containing argon**
W J M Brok, J van Dijk, M D Bowden, J J A M van der Mullen and G M W Kroesen
- 1980 **Characterization of the ion emission in a pulsed vacuum arc with an axial magnetic field**
H Kelly, L Giuliani and F Rausch
- 1987 **Behaviour of current in a planar gas discharge system with a large-diameter semiconductor cathode**
H Y Kurt and B G Salamov
- 1994 **Electron acceleration in gas by impulse electric field and its application to selective promotion of an electron-molecule reaction**
H Sugawara and Y Sakai

APPLIED SURFACES AND INTERFACES

- 2001 **Compositional and structural modifications of amorphous carbon nitride films induced by thermal annealing**
J J Li, W T Zheng, H H Wu, L Sun, G G Gu, H J Bian, X Y Lu and Z S Jin
- 2006 **Charge carrier injection and transport in PVK : Alq_3 blend films**
Y Zhang, Y Hu, J Chen, Q Zhou and D Ma
- 2010 **Effects of crystallization conditions on dielectric and ferroelectric properties of PZT thin films**
E B Araújo and J A Eiras
- 2014 **Vanishing loss effect on the effective ac conductivity behaviour for two-dimensional composite**
L Zekri, N Zekri and J P Clerc

(Continued on inside back cover)